

**COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY**

FIFTH SET OF INFORMATION REQUESTS OF  
THE DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY TO  
NSTAR ELECTRIC, D.T.E. 03-121

Pursuant to 220 C.M.R. 1.06(6)(c), the Department of Telecommunications and Energy ("Department") hereby submits to Boston Edison Company, Cambridge Electric Light Company and Commonwealth Electric Company the following information requests with respect to the above captioned matter.

**Instructions**

The following instructions apply to this set of information requests and all subsequent information requests issued by the Department to Boston Edison Company in this proceeding.

1. "NSTAR Electric" or "Companies" means Boston Edison Company, Cambridge Electric Light Company and Commonwealth Electric Company, their officers, directors, employees, consultants, and attorneys.
2. "Companies' Filing" or "Filing" means all the documents NSTAR Electric filed in this proceeding.
3. Each request should be answered in writing on a separate page with a recitation of the request, and with a reference to the request number, the docket number of the case, and the name of the person responsible for the answer. Please submit all responses on three-hole punched paper.
4. Please do not wait for all answers to be completed before supplying answers, but instead please provide the answers as they are completed.
5. These requests shall be deemed continuing so as to require further supplemental responses if the Company or its witnesses receives or generates additional information within the scope of these requests between the time of the original response and the close of the record in this proceeding.
6. The phrase "provide complete and detailed documentation" means provide all data, assumptions, and calculations on which the response relies; provide the source of and basis for all data and assumptions employed; include all studies, reports, and planning documents from which data, estimates, or assumptions were drawn and support for how the data or assumptions were used in developing the projections or estimates; and provide and explain all supporting workpapers.

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7. The term "document" is used in its broadest sense and includes, without limitation, writings, drawings, graphs, charts, photographs, phono-records, microfilm, microfiche, computer printouts, correspondence, handwritten notes, records or reports, bills, checks, articles from journals or other sources, and other data compilations from which information can be obtained, and all copies of such documents that bear notations or other markings that differentiate such copies from the original.
8. If the Company finds that any of these requests is ambiguous, please notify the hearing officer so that the requests can be clarified prior to the preparation of a written response.
9. Please serve a copy of the responses on Mary Cottrell, Secretary of the Department. Please also submit the responses directly to: (1) William Stevens, Legal Division; (2) John Cope-Flanagan, Legal Division; (3) Jeff Hall, Rates and Revenue Requirements Division; (4) Claude Francisco, Rates and Revenue Requirements Division; (5) Sean Hanley, Rates and Revenue Requirements Division; and (6) Xuan Yu, Rates and Revenue Requirements Division.

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Pursuant to 220 C.M.R. § 1.06(6)(c), the Department of Telecommunications and Energy ("Department") hereby submits to NSTAR Electric the following information requests.

- DTE 5-01      Refer to the Company's response to Information Request DTE-1-3, Attachment DTE-1-3 (a-b). Explain the reason for defining a typical month as containing 22 work days. Explain why the Company uses 21 days of usage for this example instead of 22 days of usage.
- DTE 5-02      Refer to the Company's response to Information Request DTE-1-9.  
                  (a)      Please explain how to derive the 984,596 demand kVA; and  
                  (b)      Please provide the worksheet, all supporting material and the source for deriving this table, including all spreadsheets in electronic format.
- DTE 5-03      Please provide a copy of the tariff for Rate P-1 identified in the Company's response to Information Request DTE-2-3.
- DTE 5-04      For each customer listed in the Company's response to Information Request DTE-2-3, please provide for years 1997 through 2003:  
                  (a) the monthly kW and kWh purchases by the customer and the corresponding amount billed by Boston Edison for those electric services based on Paragraph 3 of the existing QF Power Purchase Agreement attached to the existing tariffs for rate QF (M.D.T.E. No. 160) and rate P-2 (M.D.T.E. No. 161), indicating the applicable rate under which the customer was billed for those charges;  
                  (b) the monthly interconnection costs and metering costs based on Paragraph 8 of the existing QF Power Purchase Agreement attached to the existing tariffs for rate QF and rate P-2.
- DTE 5-05      Refer to the Company's response to Information Request DTE-2-9. Please calculate for rates G-3, T-2 and G-2 (with data available) the ratio of the monthly coincident and non-coincident peaks for the indicated periods.
- DTE 5-06      Refer to the Company's response to Information Request DTE-2-10. Please indicate the units of the indicated hourly demand data and define the column heading ". . . ENTR-MEAN."

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- DTE 5-07 Refer to the Company's response to Information Request DTE-2-10. Please list and describe the steps taken by Boston Edison in performing the "demand analysis" for years 1992 and 2002. Provide a copy of any reports, studies and memoranda as a result of such demand analyses.
- DTE 5-08 Using the format and data shown in the Company's response to Information Request DTE-2-10, please provide for rate classes G-3 and T-2, for years 1998 through 2002, schedules that show: (a) the hour of the year; and (b) the estimated hourly demand data that correspond to the following points in the annual load duration curve (normalized hourly demand data): 1.00000; 0.97500; 0.95000; 0.92500; 0.90000; 0.87500; 0.85000; 0.82500; 0.80000; 0.79000; 0.78000; 0.77000; 0.76000; 0.75000; 0.74000; 0.73000; 0.72000; 0.71000; 0.70000; 0.67500; 0.65000; 0.62500; 0.60000; 0.55000; and 0.50000. Provide similar schedules for years 1992 and 2002 for rate class G-2 using the above-listed points in the annual load duration curve. Describe the Company's method and explain any assumptions used in the calculations.
- DTE 5-09 Using the format shown in the Company's response to Information Request DTE-2-10, please provide, with supporting data and calculations, the annual load duration curves for Boston Edison's rate classes G-2, G-3 and T-2 for year 1991.
- DTE 5-10 Refer to the Company's response to Information Request DTE-2-12. Please provide for years 1997 through 2003 the monthly number of customers, with back up service of less than or equal to 60 kW, who were allowed to net meter under the Companies' Standards for Interconnection with Qualifying Facilities or On-Site Generating Facilities.
- DTE 5-11 Refer to the Company's responses to Information Requests DTE-2-12, DTE-2-23, and DTE 2-25. Please explain the reasons why the Company proposed to make rate SB-1 available to customers who qualify for service under two different rate classes (G-3 and T-2) that apparently have different costs (marginal and embedded costs) and availability requirements (e.g., service voltages).
- DTE 5-12 Refer to the Company's responses to Information Requests DTE-2-19 and DTE-2-20. Please provide:  
(a) a copy of the approved tariffs for bundled rates G-3, T-2 and G-2 that were in effect prior to 1977; and

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(b) a copy of any load research or cost study done prior to 1977 that were used as the basis for determining the 70 percent, 55 percent, and 55 percent reductions of the monthly billing demand recorded during off-peak hours for rates G-3, T-2 and G-2, respectively.

Dated: March 5, 2004